

## AMENDMENTS TO THE CLAIMS

### Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in this application. The following amendments do not constitute an admission regarding the patentability of the amended subject matter and should not be so construed. Applicants reserve the right to pursue the subject matter of the canceled claims in this or any other appropriate patent application.

### Listing of the Claims:

1. (Currently Amended) A method for screening ~~determining if~~ an individual is at ~~has~~ risk of having or developing Autism, comprising the steps of:  
obtaining a stool sample from the individual;  
analyzing the stool sample to ~~determine~~ detect the presence or absence of one or more antigens associated with two or more ~~different~~ pathogens, wherein said two or more pathogens comprises selected from the group consisting of *Helicobacter pylori*, *Cryptosporidium*, *Entamoeba histolytica*, *Giardia*, *Rotavirus*, *Adenovirus*, *Cyclospora*, *Microsporidia*, or *Isospora belli*;  
~~Camphylobacter, and Clostridium difficile; and~~  
analyzing the stool sample to detect the level of chymotrypsin present;  
determining that the individual is at ~~has~~ risk of having or developing Autism based on the presence of the one or more antigens associated with ~~of~~ the two or more ~~different~~ pathogens and an abnormally low level of chymotrypsin in the stool sample.
2. (Previously Presented) The method of claim 1, wherein the step of analyzing comprises performing a stool immunoassay.
- 3-6. (Canceled).

7. (Currently Amended) The method of claim 1, wherein at least one of the two or more ~~different~~ pathogens is *Helicobacter pylori*.
- 8-29. (Canceled).
30. (Withdrawn-Currently Amended) The method of claim 1, wherein at least one of the two or more ~~different~~ pathogens is *Cryptosporidium*.
31. (Withdrawn-Currently Amended) The method of claim 1, wherein at least one of the two or more ~~different~~ pathogens is *Entamoeba histolytica*.
32. (Withdrawn-Currently Amended) The method of claim 1, wherein at least one of the two or more ~~different~~ pathogens is *Giardia*.
33. (Withdrawn-Currently Amended) The method of claim 1, wherein at least one of the two or more ~~different~~ pathogens is *Rotavirus*.
34. (Withdrawn-Currently Amended) The method of claim 1, wherein at least one of the two or more different pathogens is *Adenovirus* ~~*Camphylobacter*~~.
35. (Withdrawn-Currently Amended) The method of claim 1, wherein at least one of the two or more different pathogens is *Cyclospora* ~~*Clostridium difficile*~~.
36. (Currently Amended) A method for diagnosing an individual as having or likely to develop Autism in an individual, the method comprising:  
obtaining a stool sample from the individual;  
analyzing the stool sample to ~~determine~~ detect the presence or absence of one or more antigens associated with two or more ~~different~~ pathogens, wherein said two or more pathogens comprises selected from the group consisting of *Helicobacter pylori*, *Cryptosporidium*, *Entamoeba histolytica*, *Giardia*, *Rotavirus*, *Adenovirus*, *Cyclospora*, *Microsporidia*, or *Isospora belli*; ~~*Camphylobacter*, and *Clostridium difficile*; and~~  
analyzing the stool sample to detect the level of chymotrypsin present;

diagnosing ~~Autism~~ in the individual as having or likely to develop autism based on the presence of the one or more antigens associated with the two or more different pathogens and an abnormally low of chymotrypsin in the stool sample.

37. (Previously Presented) The method of claim 36, wherein the step of analyzing comprises performing a stool immunoassay.
38. (Currently Amended) The method of claim 36, wherein at least one of the two or more ~~different~~ pathogens is *Helicobacter pylori*.
39. (Withdrawn- Currently Amended) The method of claim 36, wherein at least one of the two or more ~~different~~ pathogens is *Cryptosporidium*.
40. (Withdrawn- Currently Amended) The method of claim 36, wherein at least one of the two or more ~~different~~ pathogens is *Entamoeba histolytica*.
41. (Withdrawn- Currently Amended) The method of claim 36, wherein at least one of the two or more ~~different~~ pathogens is *Giardia*.
42. (Withdrawn- Currently Amended) The method of claim 36, wherein at least one of the two or more ~~different~~ pathogens is *Rotavirus*.
43. (Withdrawn- Currently Amended) The method of claim 36, wherein at least one of the two or more ~~different~~ pathogens is *Adenovirus* ~~*Camphylobacter*~~.
44. (Withdrawn- Currently Amended) The method of claim 36, wherein at least one of the one ~~two~~ or more ~~different~~ pathogens is *Cyclospora* ~~*Clostridium difficile*~~.
45. (Currently Amended) The method of claim 2, wherein the stool immunoassay comprises detecting one or more polypeptide antigens associated with two or more ~~different pathogens selected from the group consisting of wherein said~~ two or more pathogens comprises *Helicobacter pylori*, *Cryptosporidium*, *Entamoeba histolytica*, *Giardia*, *Rotavirus*, *Adenovirus*, *Cyclospora*, *Microsporidia*, or *Isospora belli*. ~~*Camphylobacter*, and *Clostridium difficile*.~~

46. (Currently Amended) The method of claim 37, wherein the stool immunoassay comprises detecting one or more polypeptide antigens associated with two or more ~~different~~ pathogens ~~selected from the group consisting of~~ wherein said two or more pathogens comprises *Helicobacter pylori*, *Cryptosporidium*, *Entamoeba histolytica*, *Giardia*, *Rotavirus*, *Adenovirus*, *Cyclospora*, *Microsporidia*, or *Isospora belli*. ~~*Camphylobacter*, and *Clostridium difficile*.~~
47. (Currently Amended) A method of ~~determining~~ screening an individual's risk of for risk of developing Autism, the method comprising:
- obtaining a stool sample from the individual;
- analyzing the stool sample to ~~determine~~ detect the presence or absence of one or more antigens associated with two or more ~~different~~ pathogens, wherein said two or more pathogens comprise selected from the group consisting of *Helicobacter pylori*, *Cryptosporidium*, *Entamoeba histolytica*, *Giardia*, *Rotavirus*, *Adenovirus*, *Cyclospora*, *Microsporidia*, or *Isospora belli*; ~~*Camphylobacter*, and *Clostridium difficile*; and~~
- analyzing the stool sample to detect the level of chymotrypsin present;
- ~~determining~~ identifying the individual as having is at an increased risk of developing Autism based on the presence of the one or more antigens associated with the two or more different pathogens and an abnormally low of chymotrypsin in the stool sample.
48. (Previously Presented) The method of claim 47, wherein the step of analyzing comprises performing a stool immunoassay.
49. (Currently Amended) The method of claim 47, wherein at least one of the two or more ~~different~~ pathogens is *Helicobacter pylori*.
50. (Withdrawn- Currently Amended) The method of claim 47, wherein at least one of the two or more ~~different~~ pathogens is *Cryptosporidium*.

51. (Withdrawn- Currently Amended) The method of claim 47, wherein at least one of the two or more ~~different~~ pathogens is *Entamoeba histolytica*.
52. (Withdrawn- Currently Amended) The method of claim 47, wherein at least one of the two or more ~~different~~ pathogens is *Giardia*.
53. (Withdrawn- Currently Amended) The method of claim 47, wherein at least one of the two or more ~~different~~ pathogens is *Rotavirus*.
54. (Withdrawn- Currently Amended) The method of claim 47, wherein at least one of the two or more ~~different~~ pathogens is *Adenovirus* ~~*Camphylobacter*~~.
55. (Withdrawn- Currently Amended) The method of claim 47, wherein at least one of the two or more ~~different~~ pathogens is *Cyclospora* ~~*Clostridium difficile*~~.
56. (Currently Amended) The method of claim 1, further comprising treating an individual determined to have Autism by administering ~~with~~ one or more digestive enzymes comprising chymotrypsin.
57. (Currently Amended) The method of claim 36, further comprising treating an individual determined to have Autism by administering ~~with~~ one or more digestive enzymes comprising chymotrypsin.
58. (Currently Amended) The method of claim 47, further comprising treating an individual determined to have Autism by administering ~~with~~ one or more digestive enzymes comprising chymotrypsin.
59. (Canceled) The method of claim 56, wherein the one or more digestive enzymes comprise chymotrypsin.
60. (Canceled) The method of claim 57, wherein the one or more digestive enzymes comprise chymotrypsin.
61. (Canceled) The method of claim 58, wherein the one or more digestive enzymes

comprise chymotrypsin.

62. (Currently Amended) The method of claim 1, wherein the individual ~~further~~ exhibits one or more symptoms of Autism.
63. (Currently Amended) The method of claim 36, wherein the individual ~~further~~ exhibits one or more symptoms of Autism.
64. (Previously Presented) The method of claim 47, wherein the individual further exhibits one or more symptoms of Autism.
65. (Currently Amended) The method of claim 56, wherein the digestive enzymes further comprise amylases, proteases, and lipases.
66. (Currently Amended) The method of claim 57, wherein the digestive enzymes further comprise amylases, proteases, and lipases.
67. (Currently Amended) The method of claim 58, wherein the digestive enzymes further comprise amylases, proteases, and lipases.
68. (Withdrawn-New) The method of claim 1, wherein at least one of the two or more pathogens is *Microsporidia*.
69. (Withdrawn-New) The method of claim 1, wherein at least one of the two or more pathogens is *Isospora belli*.
70. (Withdrawn-New) The method of claim 36, wherein at least one of the two or more pathogens is *Microsporidia*.
71. (Withdrawn-New) The method of claim 36, wherein at least one of the two or more pathogens is *Isospora belli*.

72. (Withdrawn-New) The method of claim 47, wherein at least one of the two or more pathogens is *Microsporidia*.
73. (Withdrawn-New) The method of claim 47, wherein at least one of the two or more pathogens is *Isospora belli*.